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DSSD CENSUS 2000 PROCEDURES AND OPERATIONS MEMORANDUM SERIES R-11

MEMORANDUM FOR Howard Hogan
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Subject: Census 2000 ICM: Sample Size Estimates-Reissue

This memorandum is being reissued for inclusion in the official *DSSD Census 2000 Procedures and Operations Memorandum Series*. All text in the version of this memorandum distributed on November 18, 1999 remains the same in this version. **All sample size estimates in this memorandum are obsolete. See memorandum R-7 of this series for the sample size estimates for the Accuracy and Coverage Evaluation survey.**

This memorandum documents our current estimates of housing unit sample size for the Census 2000 Integrated Coverage Measurement (ICM) for budgeting purposes. These sample sizes could change due to the budget process or operational resource constraints. Furthermore, the actual sample sizes may be different to the extent the universe differs from the assumptions we used to estimate these numbers.

These numbers are presented for the total U.S. which include the 50 states and the District of Columbia. The basis of these numbers is the state allocation of the 25,000 block clusters given in [1] and assumes 750,000 occupied and vacant housing units. Sample size estimates are also provided for the sample of 5,000 small block clusters (20% of 25,000). In addition, sample sizes for Puerto Rico are shown separately.

The housing unit sample sizes in terms of listing and interviewing are provided in the table. These numbers are approximately 1,988,000 and 774,000, respectively, for the total U.S. While for Puerto Rico, the comparable numbers are approximately 46,700 and 14,900. The number of enhanced list housing units designated for person interview includes all occupied and vacant P-sample units and the census-only units not in the P-sample. The estimates of occupied and total designated housing units for just the P-sample are provided for documentation. Note that sample

size estimates for any of the Person Follow-up and the Housing Unit Follow-up operations are not reflected in any of these housing unit estimates.

The resulting expected reliability for each state based on these sample sizes assumes the 1990 Post-Enumeration Survey scenario. To the extent that the 2000 ICM and initial phase methods and results differ from 1990, the expected state reliability estimates will differ. Some examples of differences include search area, geocoding errors, response rates, and high close-out rates.

Table: Census 2000 ICM - Estimated Sample Size

Sample Size	U.S.			Puerto Rico
	Total	Medium and Large Blocks	Small Blocks	
Number of Occupied Housing Units in P-sample	658,100	657,200	900	12,800
Number of Housing Units in P-sample Designated for Interview (Occupied and Vacant)	751,000	750,000	1,000	14,400
Number of Enhanced List Housing Units Designated for Interview (incl. Census only)	774,300	773,200	1,100	14,900
Number of Housing Units Listed	1,988,000	1,978,000	10,000	46,700
Number of Block Clusters	30,000	25,000	5,000	480

The data used to derive these estimates include:

- 1990 Census housing unit and block size distributions
- 1997 annual average state gross vacancy numbers (based on unofficial Housing Vacancy Survey estimates)
- three percent of the enhanced list units are not in the P-sample (based on 1995 Census Test data)
- Puerto Rico has about a 11.3 percent vacancy rate (1990 Census) and 40 percent of the housing units are in large blocks
- proportional allocation of sample within state
- American Indian Reservation sample is included

Reference

- [1] DSSD 2000 Census Memorandum series N- , Memorandum for Killion from Schindler, "Allocation of the ICM Sample for Census 2000," Draft.

cc:

Sample Design Team